



# Jefferson Lab Alignment Group

## Data Transmittal

**TO:** A. Freyberger, J. Benesch, M. Spata

**DATE:** Sep 09 2004

**FROM:** J. Dahlberg

**Checked:**

**# :** L942

**DETAILS:**

Below are the results of the AT08 and AT09 beam viewers surveyed on Aug 20, 2004 in the SW transport region. Values are in meters based on the accelerator site coordinate system. For the beam following offsets, a +Z is downstream, a +X is to the beam left, and a +Y is above.

<b>LOCATION</b>	<b>Z</b>	<b>X</b>	<b>Y</b>
<u>TVAT08</u>			
As set (line "B" grid)	79754.13392	59919.39978	2100.08759
Ideal at set Z location		59919.40000	2100.08754
Offset (beam following)		+.00022	-.00005

Note: A line centered on the viewer grid defining A, B, and C beam lines was used to set the roll of the assembly vertical.

<u>TVAT09</u>			
As set (line "B" grid)	79750.21902	59919.39971	2100.24584
Ideal	79750.21250	59919.40000	2100.24592
Offset (beam following)	+.00652	+.00029	-.00008

Note: The following values are relative to the Line "B" beam line and are derived from measurements performed in the lab prior to installation.

	<b>DX</b>	<b>DY</b>
Offset 4 <sup>th</sup> pass grid (beam following)	+.00032	+.05921
Offset line "A" grid (beam following)	+.00030	+.01473
Offset line "C" grid (beam following)	+.00021	-.01454